



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/840,231	05/07/2004	Jang-keun Oh	116511-00132	9693
27557	7590	10/17/2007		
BLANK ROME LLP 600 NEW HAMPSHIRE AVENUE, N.W. WASHINGTON, DC 20037			EXAMINER HOPKINS, ROBERT A	
			ART UNIT	PAPER NUMBER
			1724	
			MAIL DATE	DELIVERY MODE
			10/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



## U.S. Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10840231	5/7/04	OH ET AL.	116511-00132

BLANK ROME LLP  
600 NEW HAMPSHIRE AVENUE, N.W.  
WASHINGTON, DC 20037

## EXAMINER

Robert A. Hopkins

ART UNIT

PAPER

1797

101107

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

IDS signed an initialled. Examiner notes the French Search Report dated February 15, 2007 indicates that Japanese reference JP 2002 326041 is an X type anticipatory reference over claim 1 of the current application, however upon review of the Japanese reference, Examiner is unable to locate "a plurality of second cyclones for separating minute dust particles from air by using a centrifugal force after the dust separation at the first cyclone; and a cover disposed on an upper portion of the first cyclone and the second cyclones, the cover including a guide formed at a lower center to guide air discharged from the first cyclone into the second cyclones".

*Robert A. Hopkins*  
ROBERT A. HOPKINS  
PRIMARY EXAMINER

*A-4.1724*